





Created: 1 day, 0 hours after earthquake

**PAGER** 

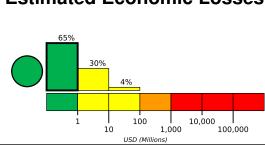
Version 5

# M 5.7, 255 km SSW of Ohonua, Tonga

Origin Time: 2023-06-16 10:45:24 UTC (Thu 22:45:24 local) Location: 23.5827° S 175.5291° W Depth: 10.0 km

**Estimated Fatalities** 10,000 1,000

Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likelihood of casualties and damage.



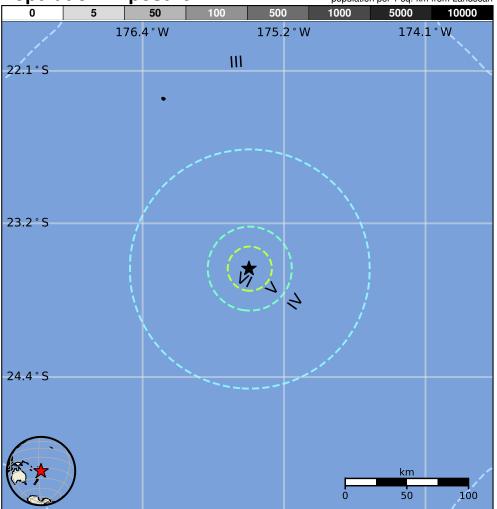
**Estimated Population Exposed to Earthquake Shaking** 

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ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	0	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

## Population Exposure

population per 1 sq. km from Landscan



#### **Structures**

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unknown/miscellaneous types and wood construction.

### **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking	
(UTC)	(km)		MMI(#)	Deaths	
1986-08-18	373	6.1	V(4k)	_	
1983-03-21	230	6.7	VII(53k)	_	
1977-06-22	78	8.0	VII(47k)	0	

#### Selected City Exposure

from GeoNames.org

MMI City **Population** 

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us7000k8we#pager

Event ID: us7000k8we